

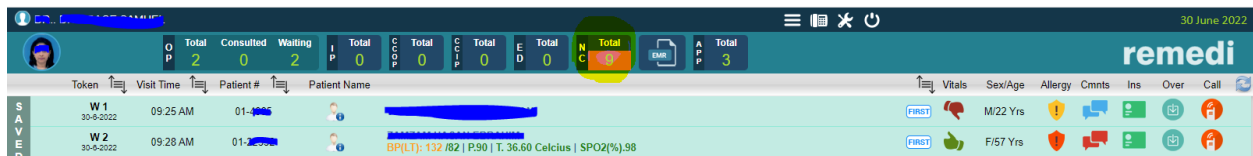
# Innovation of EMR (electronic medical record) Audit Tools for Physicians

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Healthcare sectors are facing the biggest challenge to complete the Patients' medical records on time. Due to difficulties in auditing the huge number of medical records, the quality of the medical record is the biggest constraint to meeting compliance and patients' safety.

To overcome this issue, we have implemented automatic auditing tools and a monitoring system.

Doctors will get notification of all the incomplete medical records on their clinical screen. Similarly, the Medical record department will be notified about the incompleteness of files.



**Fig1: Doctors get the alert of Non-Completion of Files. i.e. this doctor has 9 Medical records to be completed.**

Doctors will open the incomplete files and get the status of missing mandatory fields. Immediately doctor has to fill in the notes. The medical record department will get notification of the completion of cross-checking. Medical record department staff will acknowledge the proper completion of the notes and doctors will get a notification on their screen of having completed clinical notes.

The screenshot shows the 'Mandatory Audited List' interface. It has a search bar with 'From Date' (01/12/2021) and 'To date' (20/07/2022) and a 'Show' button. Below the search bar, there are input fields for 'MEH No.', 'Name', and 'CPR No.', and a 'Status' dropdown menu set to 'Incompleted'. Below the search bar, there's a table with the following columns: Sl#, Patient, OP No., CPR No., End Date, Status(Auditor), and Status(Dr). The table contains 7 rows of data, all of which are 'Incompleted'.

Sl#	Patient	OP No.	CPR No.	End Date	Status(Auditor)	Status(Dr)
1	[REDACTED]	01	[REDACTED]	28/02/2022	Incompleted	
2	[REDACTED]	01	[REDACTED]	28/02/2022	Incompleted	
3	[REDACTED]	01	[REDACTED]	28/02/2022	Incompleted	
4	[REDACTED] RMA	01	[REDACTED]	28/02/2022	Incompleted	
5	[REDACTED]	01	[REDACTED]	28/02/2022	Incompleted	
6	[REDACTED]	01	[REDACTED]	28/02/2022	Incompleted	
7	[REDACTED]	01	[REDACTED]	28/02/2022	Incompleted	

**Fig2: Details of incomplete files.**

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The screenshot displays a 'Mandatory Audit Report' interface. On the left, there is a sidebar with a user profile and a table of staff members. The main area shows patient information: Name, MEH No., CPR No., and Visit Date. Below this is a table with 10 rows, each representing an audit item with columns for SIF, Name, and Details. At the bottom, an 'Audited Details' section contains a dropdown for 'Audit Status' (set to 'Incomplet'), an 'End Date' field (28/02/2022), a checkbox for 'Unacceptable abbreviation usage', and radio buttons for 'Completion of Consent Form for procedures' (set to 'NA').

SIF	Name	Details
1	Allergy	No allergy
2	Chief Complaints	vertigo 2d, feel tired, post corona 20th day
3	Diagnosis	G6PD, Beta thalassaemia, dizziness
4	General Examinations	
5	His Present Illness	
6	ICD Diagnosis	
7	PMH	no history of allergy to any medicine
8	Patient And Family Education	y
9	Systemic Examination	
10	Treatment Plan/Remarks	for wax removal, to take meds from hidd

**Audited Details**

Audit Status: Incomplet

End Date: 28/02/2022

Unacceptable abbreviation usage:

Completion of Consent Form for procedures:  NA  Yes  No

**Fig3: Details of Mandatory fields completion status. Medical record staff can easily identify and change the status.**

The whole process was appreciated by National Health Regularity Authority while having the accreditation. We achieved the highest status which is "Diamond" in NHRA accreditation.